

CONTENTS

Preface		vii
Chapter 1	Phylogeography of Finches and Sparrows <i>Antonio Arnaiz-Villena, Pablo Gomez-Prieto and Valentin Ruiz-del-Valle</i>	1
Chapter 2	Approaches to the Study of the Genetics of Behavioural Variation Using Mice and Rats <i>M. C. Jawahar, Y. M. Wilson, A. J. Lawrence, T. C Brodnicki and M. Murphy</i>	55
Chapter 3	Genetic and Genomic Resources for Common Carp <i>Cyprinus Carpio</i> , An Economically Important Farmed Freshwater Fish <i>Dimitry A. Chistiakov and Pavel A. Chistiakov</i>	81
Chapter 4	Bovine Leukemia Virus (BLV), Proposed Control and Eradication Programs by Marker Assisted Breeding of Genetically Resistant Cattle <i>E.N. Esteban, M. Poli, B. Poiesz, C. Ceriani, S. Dube, S. Gutierrez, G. Dolcini, R. Gagliardi, S. Perez, C. Lützelshwab, L. Feldman and M.A. Juliarena</i>	107
Chapter 5	Pig Genomics and Pig Transgenesis in Biomedical Research <i>Bernhard Aigner, Barbara Kessler, Nikolai Klymiuk, Mayuko Kurome, Simone Renner, Regine Schreiner, Annegret Wunsch and Eckhard Wolf</i>	131
Chapter 6	Epigenetic Regulation in Bovine Cells: Nutrient-Induced Modulation of Gene Expression and Cellular Functions <i>Congjun Li, Ted H. Elsasser and Robert W. Li</i>	153
Chapter 7	Examining Polymorphisms Affecting Transcription and Translation of Genes Linked to Marbling in Beef Cattle <i>Deborah J. Good</i>	175

Chapter 8	Genetic Resources and Commercial Cattle Breeding in the Tropics - Are Yesterday's Breeds the Answer to 21 st Century Problems? <i>André Martinho de Almeida</i>	191
Chapter 9	Domain-Oriented Analysis for Understanding Molecular Interactions and Translating Animal Genetic Models into Neuropsychiatric Disorders: Focus on Serotonin Transporter and BDNF <i>Allan V. Kalueff, Renee F. Ren-Patterson, Justin L. LaPorte and Dennis L. Murphy</i>	197
Chapter 10	Understanding the Stress Response through Mouse Genetics <i>Amy F. Eisener-Dorman and Valerie J. Bolivar</i>	221
Index		261